ALEXANDRE CARMINOT

ENGINEERING STUDENT

Medical Engineering
Neuroscience - Computer Science

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Alex_Irae
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Alex-Irae [link]
My Portfolio [link]

Technical Skills

- Medical neuroscience
- Programming: Python, Java, C++, MATLAB, HTML/CSS/Js
- AI/ML: TensorFlow, PyTorch, XGBoost, Deep Neural Networks
- Tools: Docker, Microsoft Office,

Soft Skills

- Communication and Leadership
- Attentive & Analytical
- Adaptive & Flexible

Language Proficiency

- French - Native (Voltaire)
- English - Proficient (TOEIC 980)
- Spanish - Intermediate
- Chinese - Basic

Hobbies

- Martial Arts : Taekwondo (Red Belt), Judo (Brown Belt),
- Team sports : Rugby & Soccer
- Music : Piano (Playing for 7 years)
- Science : Astronomy, Cosmology, Archaeology

Medical Engineering Master's student specializing in neuroscience and AI. Experienced in BCI simulators and machine learning for healthcare, with proficiency in Python, C++, MATLAB, TensorFlow, and a solid foundation in signal processing and neurotechnology

Education

EPF Engineering School Paris

Master - Medical Engineering - 09/2023-Present.
Bachelor - General Engineering - 09/2019-06/2023.

天津大学 - Tianjin University- Exchange Program

Computer Sciences and Machine Learning - 09/2024-Present.
Intelligent Medical Engineering - 09/2023-01/2024.

Certifications

Advanced Medical Neurosciences - Duke University - Fall 2024
Deep Learning and AI - TensorFlow-DeepLearning.AI- Fall 2024
Machine Learning - Stanford x DeepLearning.AI-Fall 2024

Projects [link]

Disease Prediction Algorithm (Python) -[View on GitHub]

The algorithm consists of a Deep Neural network and a Machine Learning Ensemble to predict a disease based on symptoms. Achieved 96% accuracy.

BCI Workshop - Hand Movement Recognition (MATLAB) - [Link]

Implemented real-time hand gesture recognition system using flexion sensors rained AI to identify 6 distinct movement patterns (static & dynamic) with pattern recognition algorithms

Work Experience

Internship

Zen2050 Maintenant | Paris | Summer 2022

Authored detailed specification documents for the annual event, contributing to its successful planning and execution.

Jobs

Outlier Agent | Remote | Current - Since January 2024

Provided feedback on language models, improving AI systems by identifying errors and offering corrections.

Private Tutor and E-Sport Coach | Summer 2022 & 2023

Delivered personalized tutoring and coaching sessions, adapting to various skill levels to improve students' understanding and performance.